

## CLAIMS

1. Fungi-based pharmaceutical and/or dietary compositions, characterised in that they contain one or more fungi or parts of edible fungi presenting therapeutic properties and chitosan as chelating agent of contaminants such as heavy metals, radioactive metals, weed-killers, fertilizers and insecticides, combined or mixed with a diluting agent or a non-toxic vehicle.
2. Compositions according to claim 1, characterised in that the chitosan is an acid chitosan.
3. Compositions according to claim 1, characterised in that that the chitosan is a basic chitosan.
4. Compositions according to claim 1, characterised in that that the chitosan is formed from a mixture of acid chitosan and basic chitosan.
5. Compositions according to one of claims 2 or 4, characterised in that the chitosan in acid form has a pH less than 6.
6. Compositions according to any one of claims 2, 4 and 5, characterised in that the chitosan in acid or cationic form is obtained by addition to the chitin of an organic acid chosen from among acetic acid, lactic acid, succinic acid, tartaric acid, ascorbic acid, citric acid, glutamic acid, methanesulphonic acid or ethanesulphonic acid.
7. Compositions according to any one of the claims 2, 4 and 5 characterised in that that the acid chitosan is obtained by addition of ascorbic acid or lactic acid to the chitin.
8. Compositions according to one of claims 3 or 4, characterised in that the basic chitosan has a pH of between 7 and 12.

9. Compositions according to one of claims 3, 4 or 8, characterised in that the basic chitosan is an alkyl carboxamide of chitosan in which the alkyl group has from 2 to 6 carbon atoms.

5 10. Compositions according to claim 9, characterised in that the basic chitosan is chitosan succinamide, chitosan acetamide or chitosan tartramide.

11. Compositions according to any one of claims 1 to 10, characterised in that the chitosan contents range from 30 to 70 % by weight of the total mass.

10

12. Compositions according to any one of claims 1 to 11, characterised in that the fungi or the parts of fungi such as the mycelium are used in fresh form or in the form of a dry extract.

15

13. Compositions according to any one of claims 1 to 12, characterised in that the fungi are selected from among: *Armillaria Mellea*, *Agaricus bisporus*, *Boletus edulis*, *Cordyceps sinensis*, *Coriolus versicolor*, *Flammulina velutipes*, *Ganoderma lucidum*, *Hericius erinaceus*, *Hypsizygus marmoreus*, *Auricularia auricula-Judae*, *Phellinus linteus*, *Pleurotus ostreatus*, *Grifola frondosa*, *Agaricus campestris*, *Lentinus edodes*,

20

*Tremella fuciformis*, and *Volvaria volvacea*.

14. Use of the compositions according to any one of claims 1 to 13, with a view to the achievement of a dietary and/or pharmaceutical preparation suitable for combating obesity, hypercholesterolemia, diabetes, cancer, memory disorders or asthma, in the form of galettes or biscuits and the like.

25